The Relationship Between Discontinuities and Alfvén Waves at Polar Heliographic latitude: Ulysses

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We have previously shown that interplanetary discontinuities are intimate.ly related to Alfvén wave trains, and that some discontinuities are consistent with being the steepened edges of the waves. We will explore this relationship further by examining the waves and discontinuities at two points near the highest heliographic latitudes of Ulysses trajectory (700°80"'). The type and nature of the discontinuities observed in the polar coronal hole streams will be discussed, as well as differences from that found in the ecliptic plane. The above, discontinuity properly differences will be related to the differences in Alfvén waves at the two latitudes.

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